

0000000000000000

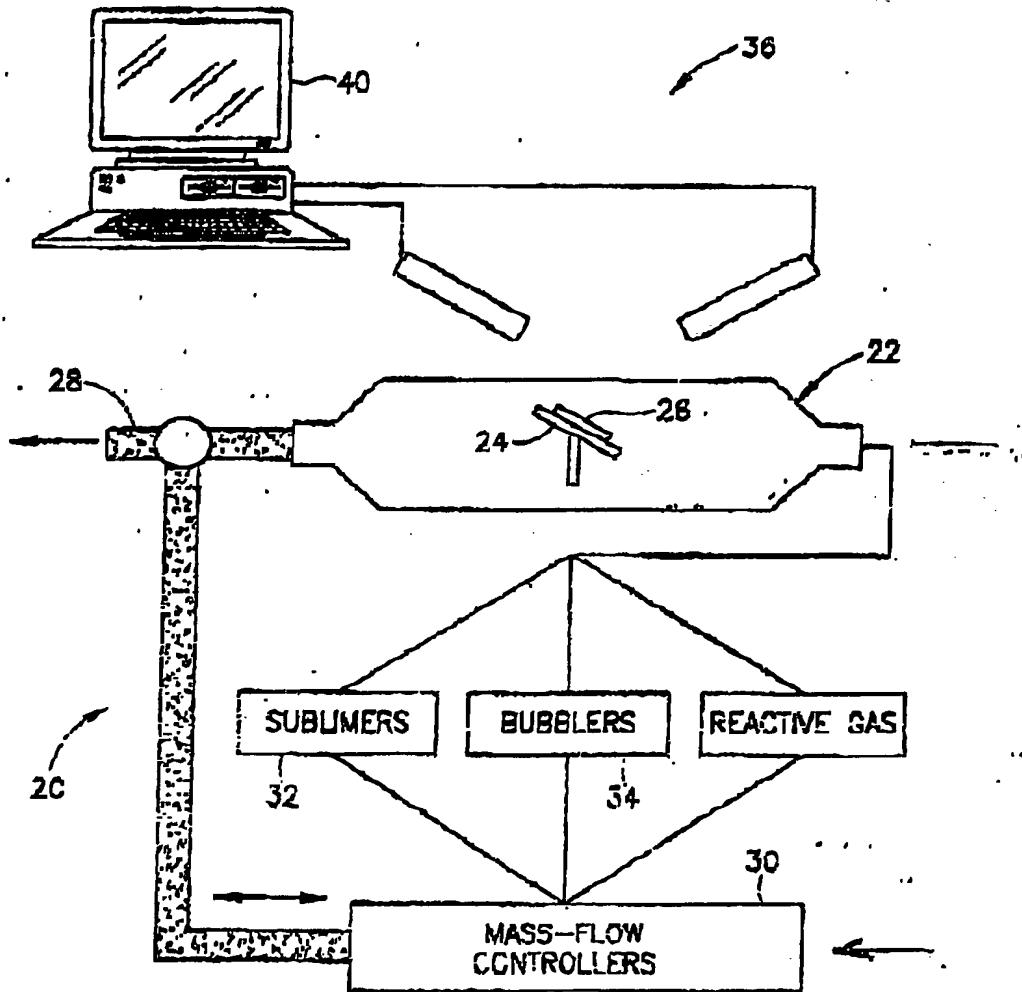


FIG.1

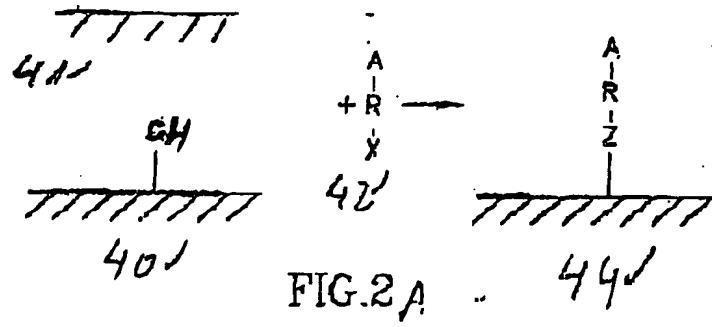


FIG.2A

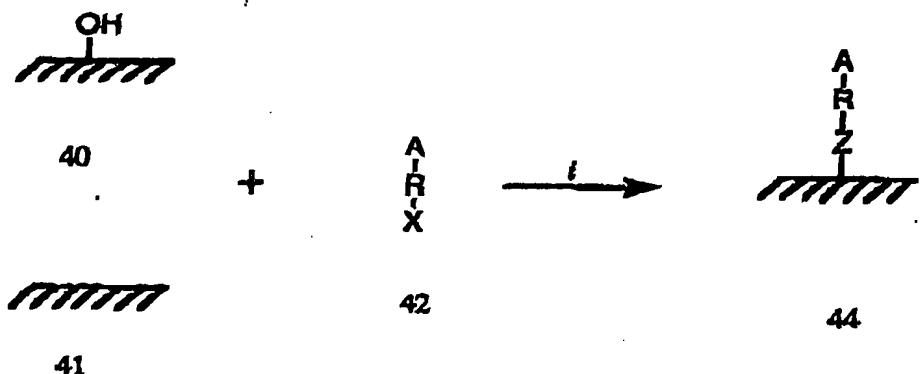


FIG.2A

Substrate	Coupling Agent (X = silane or thiol)	Template Layer (Z = siloxane or metal-oxide)
 MO _x M = Si, Tl, In, Fe, ...	 A = -NH ₂ or R = alkyl or phenyl	
 M or MM' M = Au, Pt, Cu, ... MM' = GeAs, CaSc, ...	 NH ₂ -R-SH or R = alkyl or phenyl	

FIG.2B

Substrate	Coupling Agent (X = OH, CO ₂ H, PO ₃ H ₂)	Template Layer (Z = alkoxydine, phosphate or carbonylene)
Cl 40	HO-R-NH ₂ 42 R = alkyl or phenyl	H ₂ N(CH ₂) _n -Z 44 Z = alkoxydine, phosphate or carbonylene
II-IV III-V 41	HOOC-R-NH ₂ (HO) ₂ OP-R-NH ₂ 42 R = alkyl or phenyl	COO(CH ₂) _n -Z 44 Z = alkoxydine, phosphate or carbonylene

FIG.2B cont'd

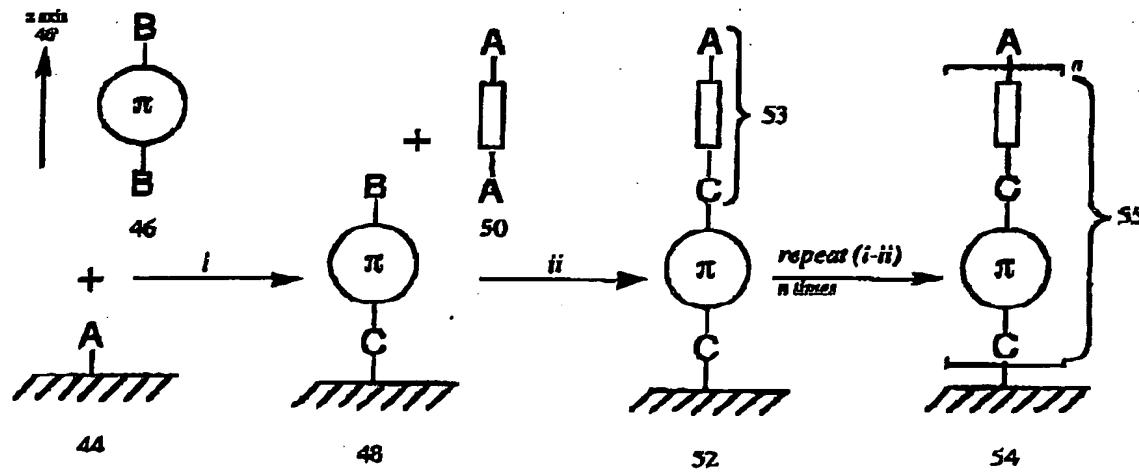


FIG.3A

A	B	C	Ins/SC	Cond./SC	
-NH ₂					Ins/Cond.
R-NH ₂ R-NH ₂					Ins/Cond.
-NH ₂					SC/SC
-SiCl ₃	-OH		naphthalene perylene terylene anthracene pentacene	porphyrine phthalocyanine	
	-OH				

FIG.3B

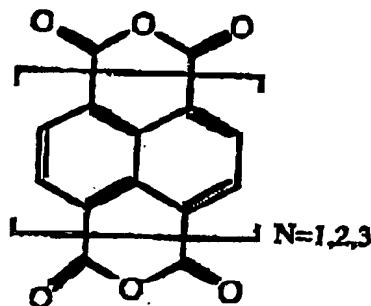


FIG.4A

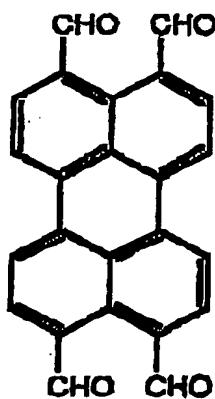
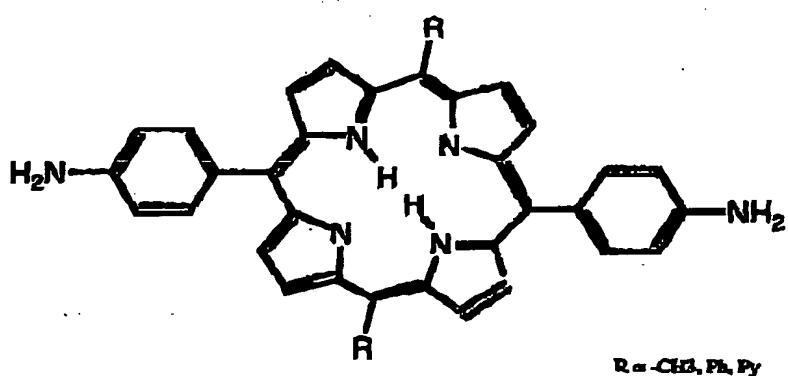


FIG.4B



R = -CH₂, Ph, Py

FIG.4C

TOP SECRET - CH299660

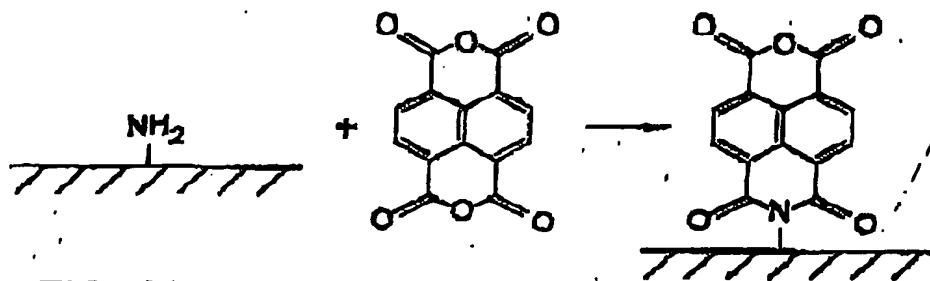


FIG. 5A

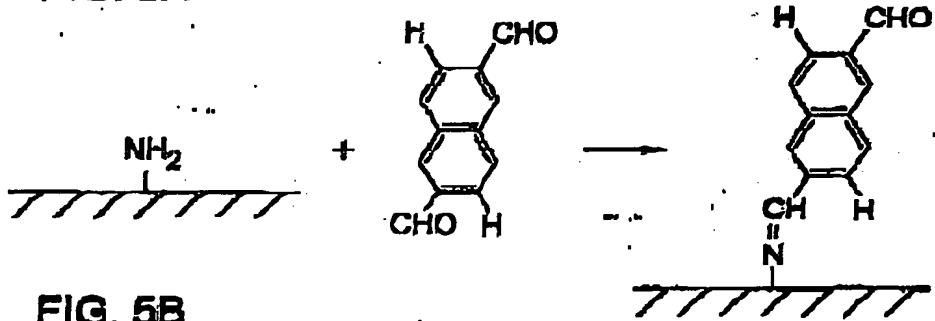


FIG. 5B

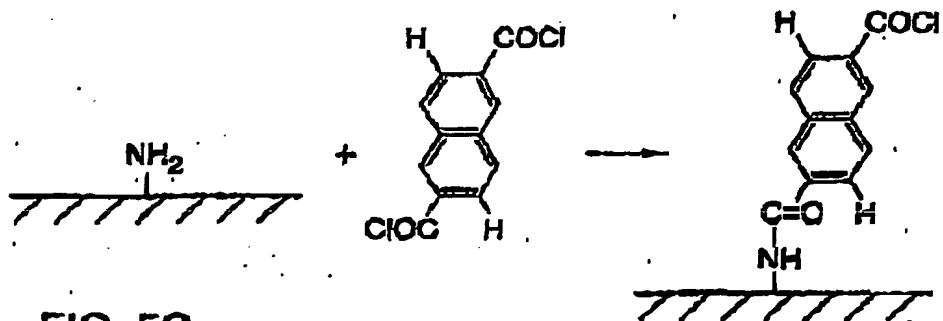


FIG. 5C

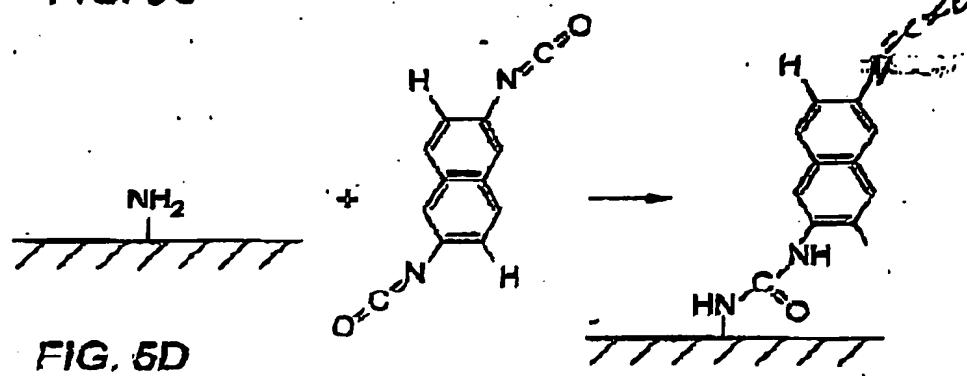


FIG. 5D

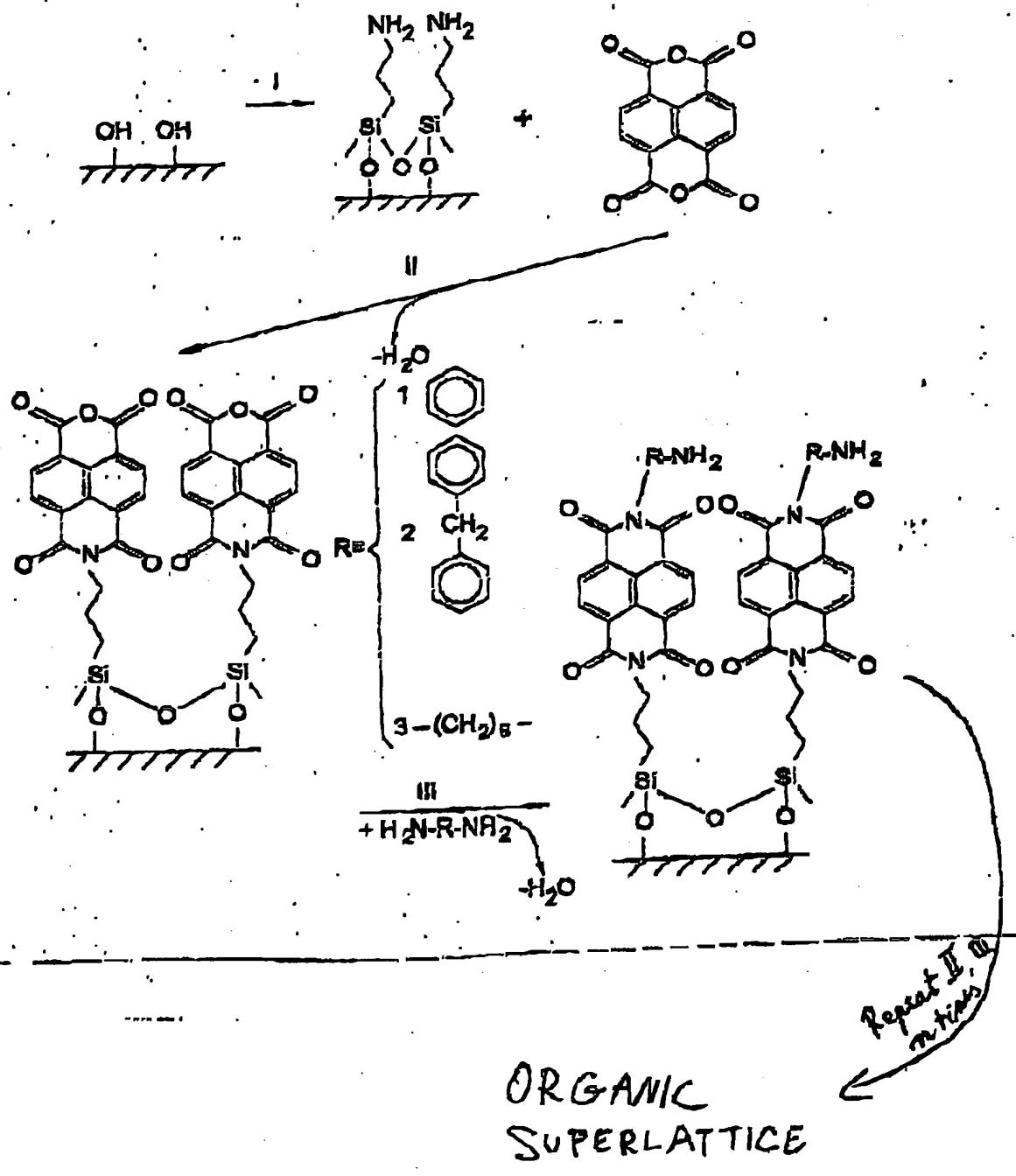


Fig. 6

099687400100100

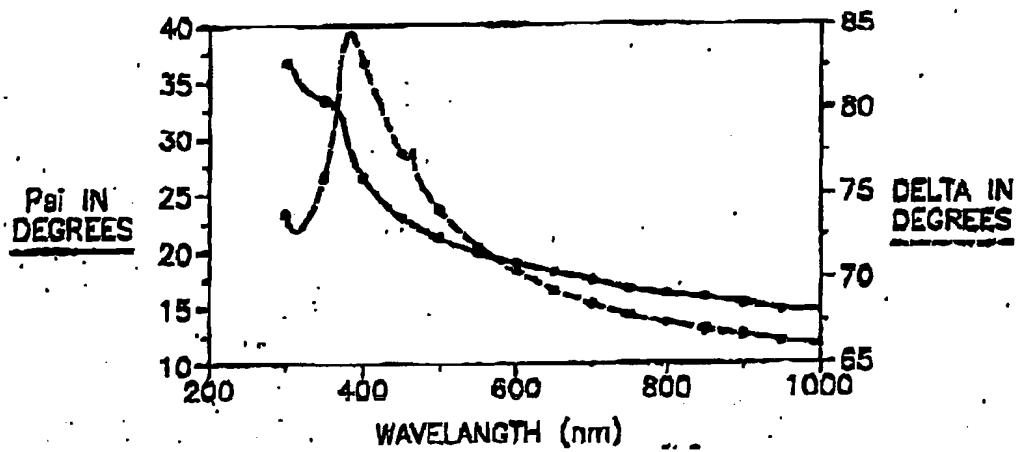


FIG. 7

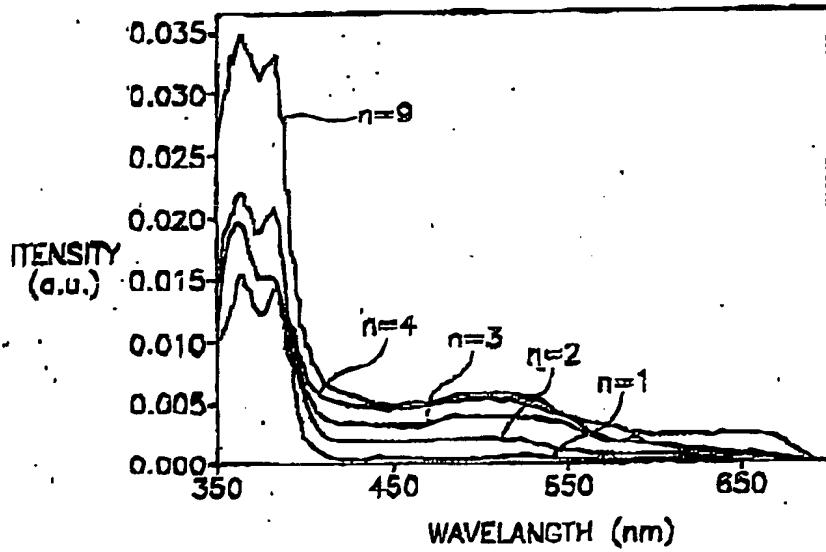


FIG. 8

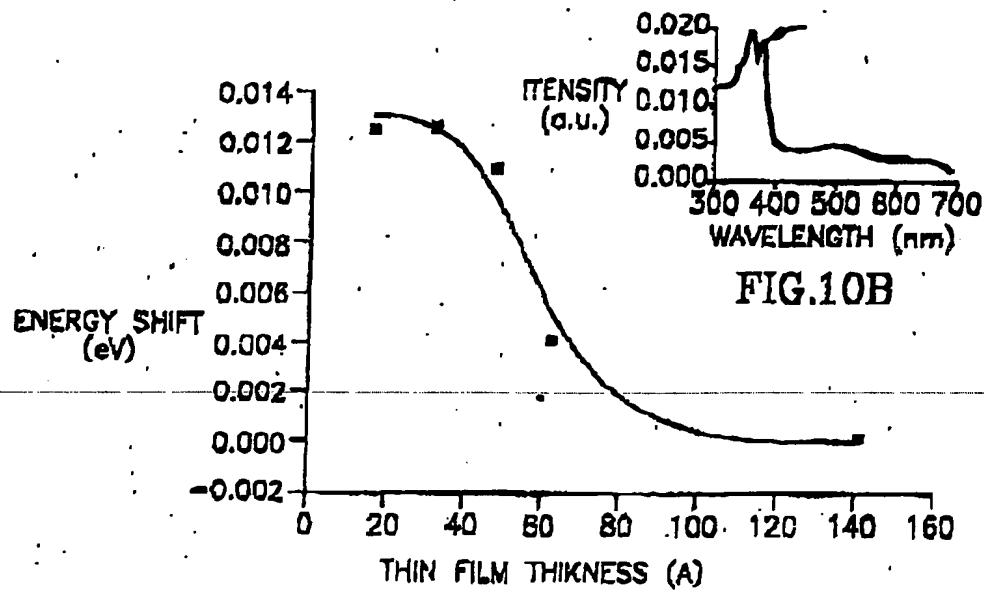
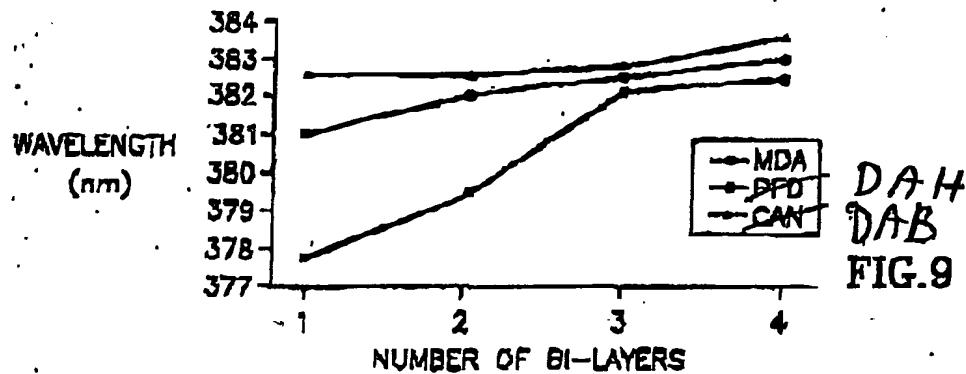


FIG.10A

099667445.100101

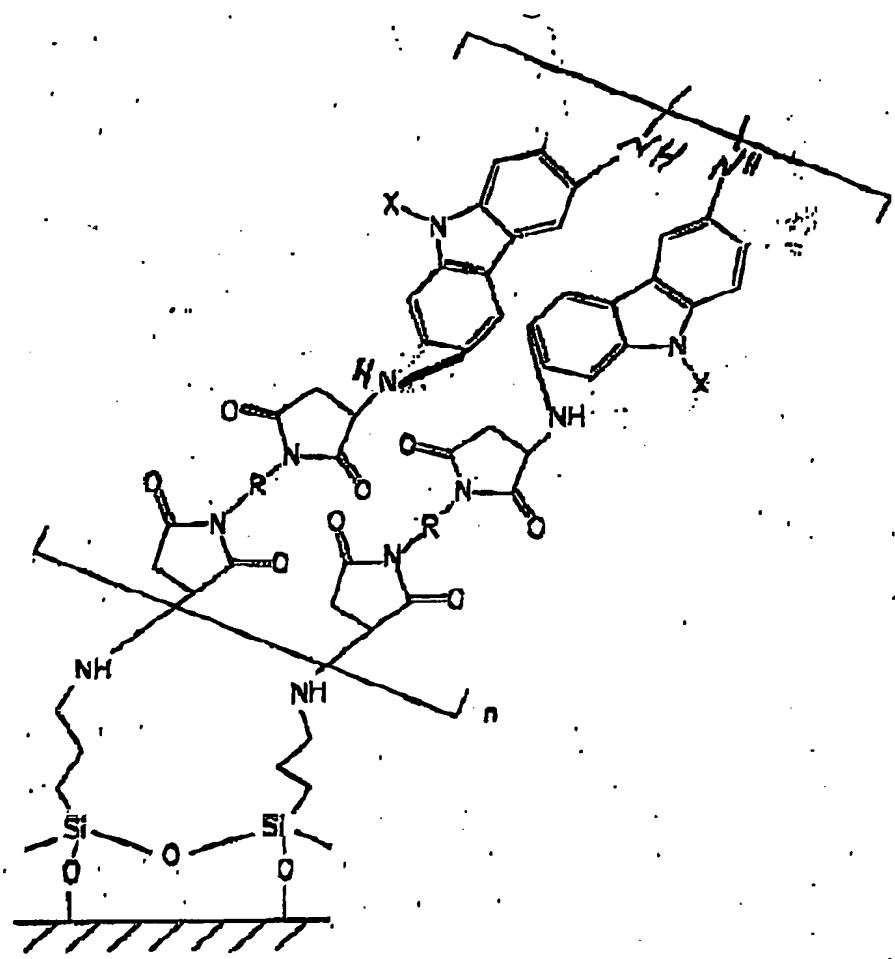


FIG.11

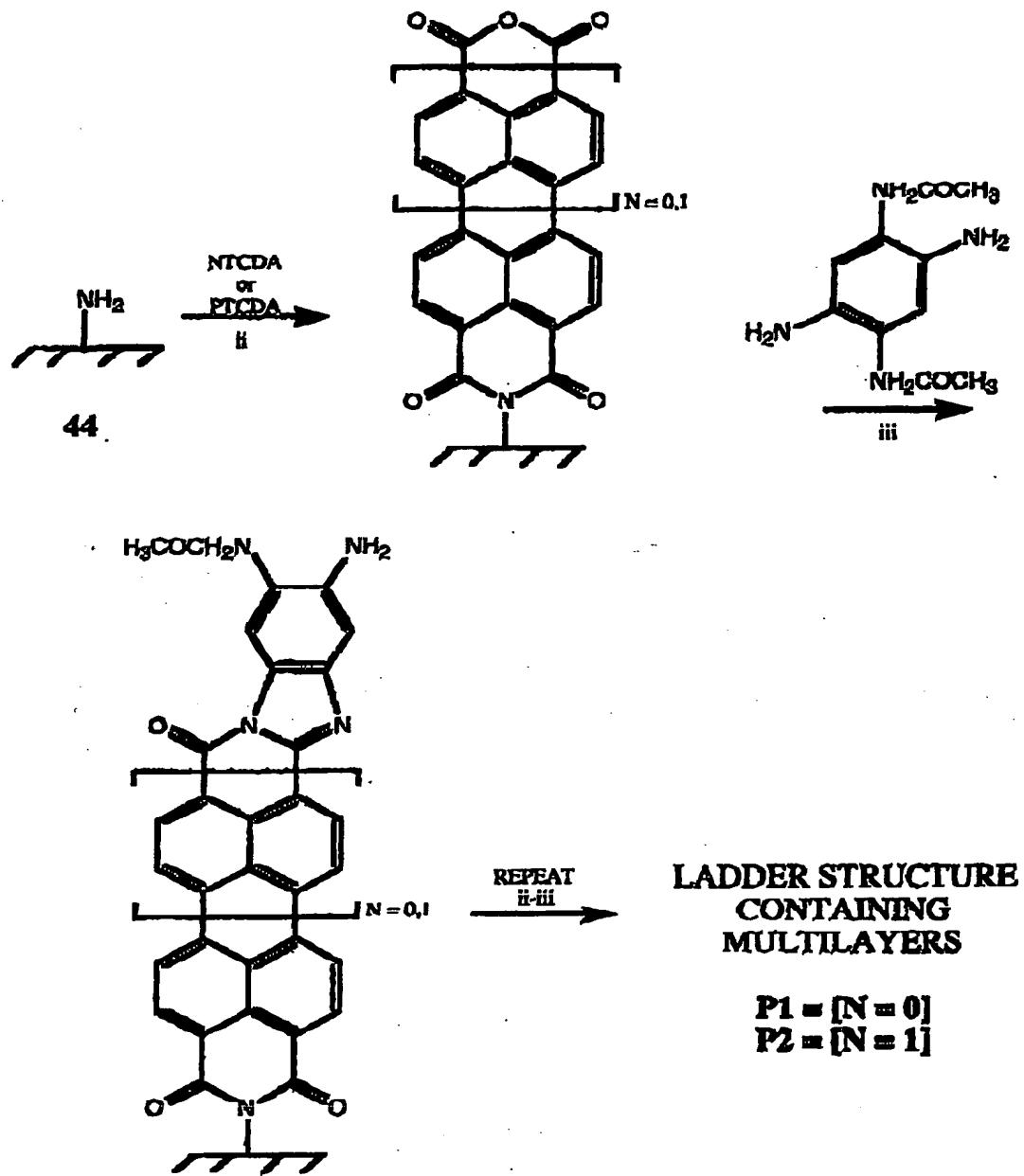


FIG.12A

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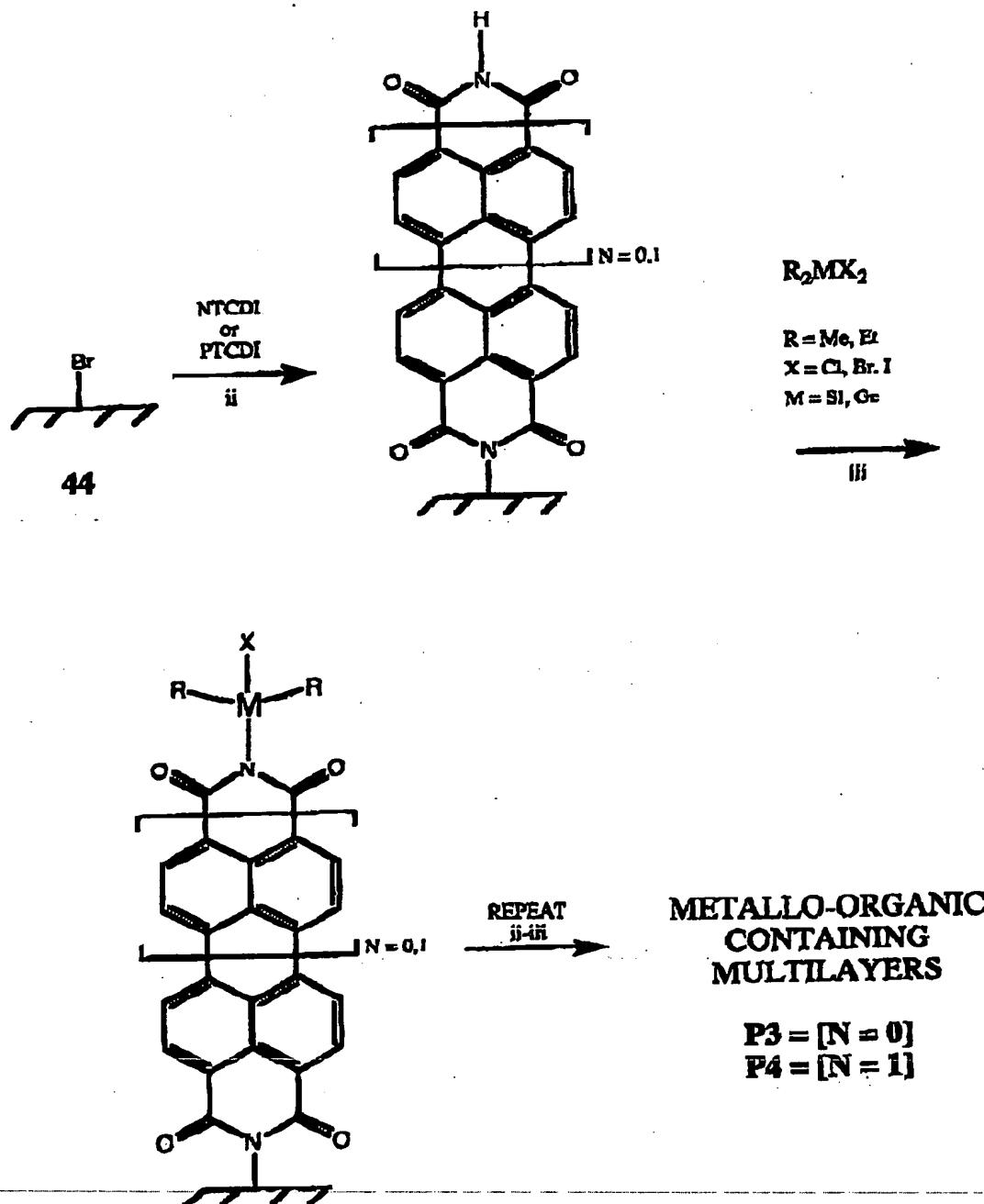
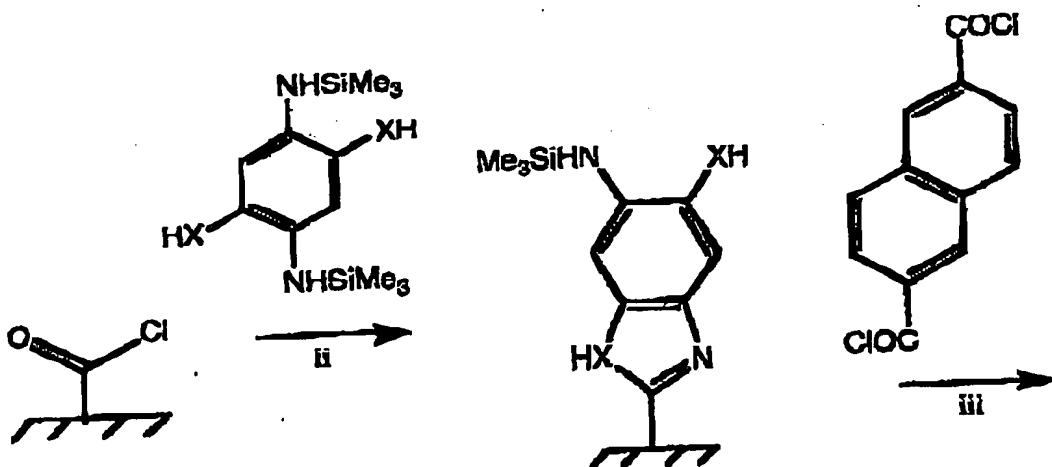
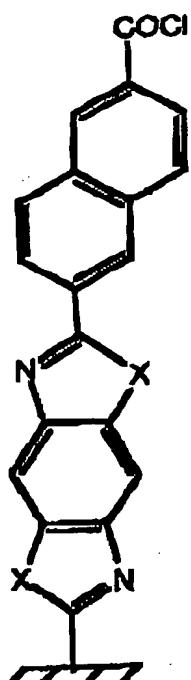


FIG.12B



44



REPEAT
ii-iii →

π-CONJUGATED MULTILAYERS

P5 = [X = O]
P6 = [X = S]

FIG.12C

TOP SECRET//SI//REL TO USA, UK, FVEY

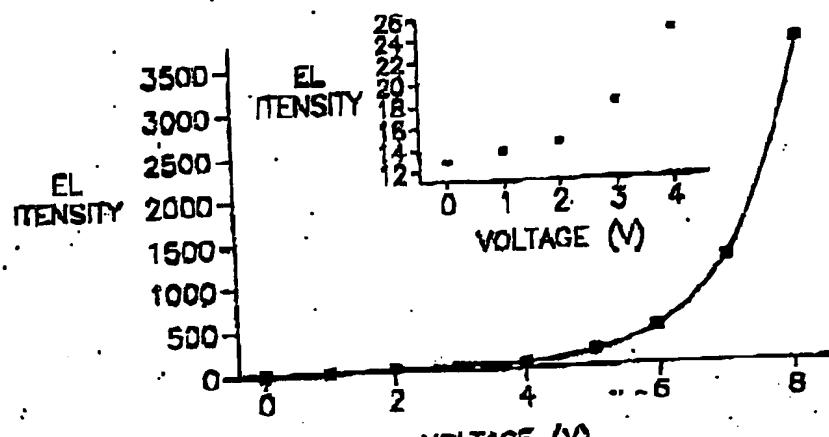


FIG.13A

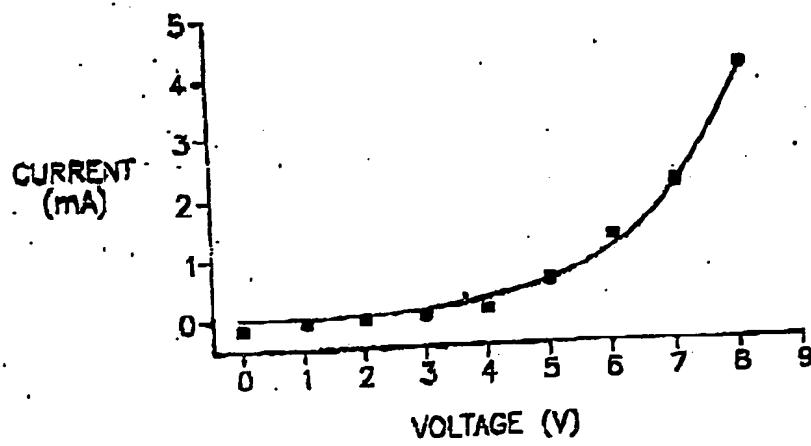
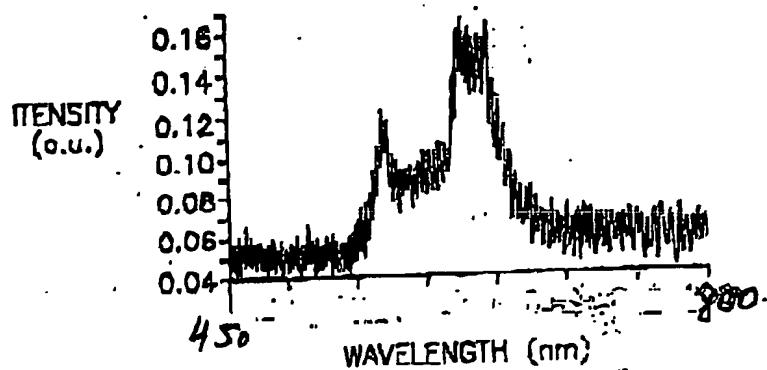
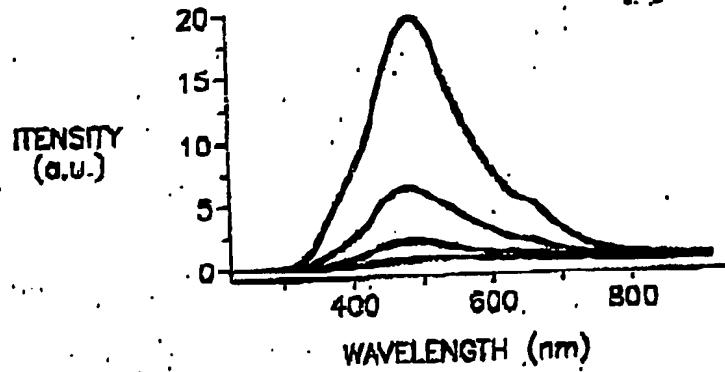
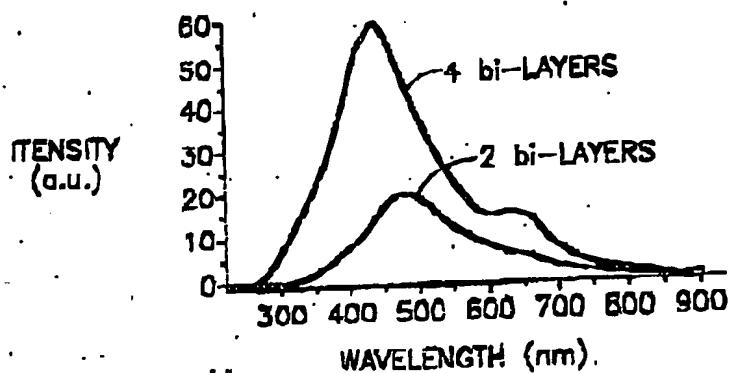


FIG.13B

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1.001.01



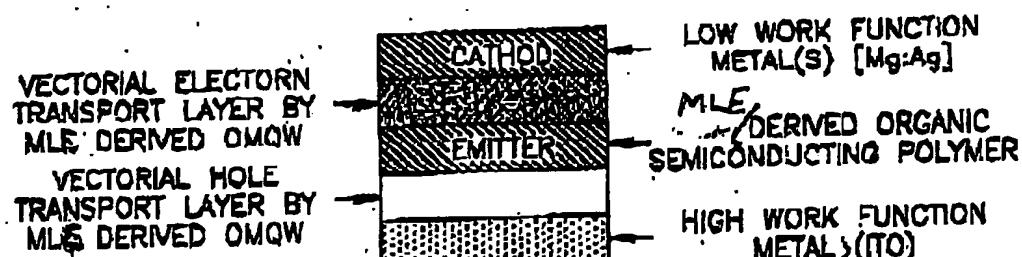


FIG.17A

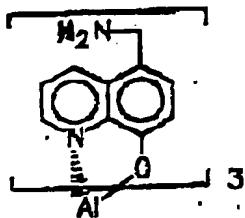


FIG.17B

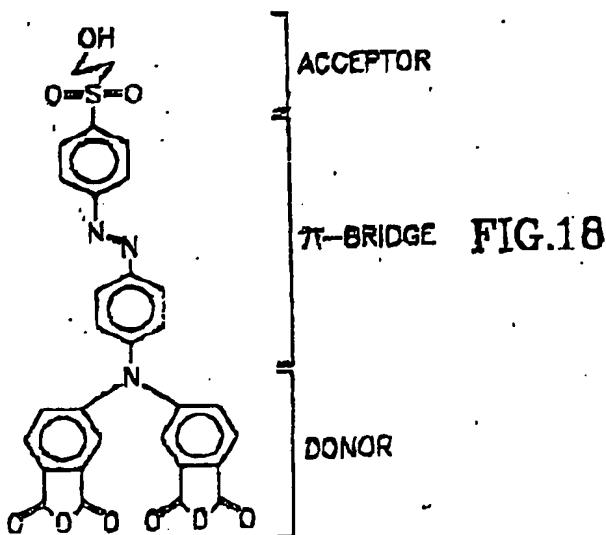
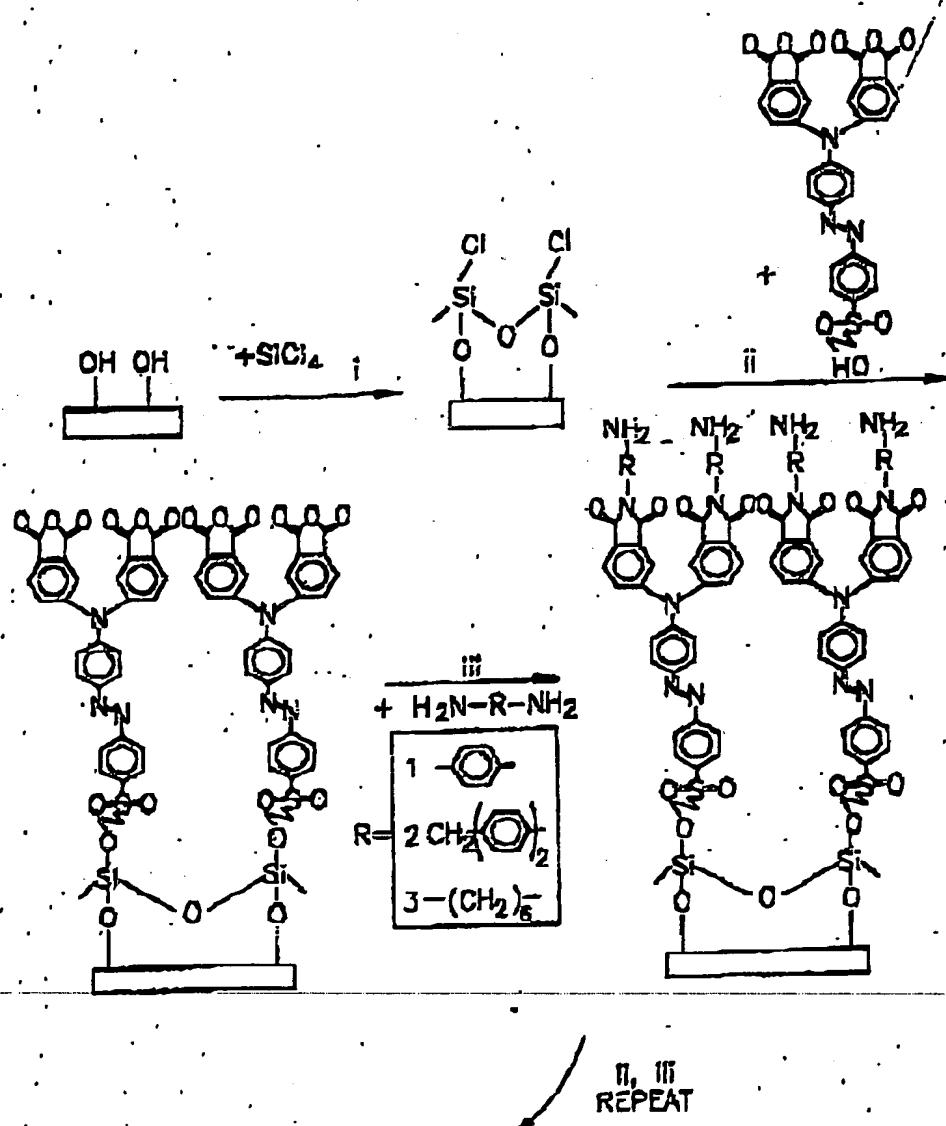


FIG.18



ORGANIC SUPERLATTICE

FIG.19